INDEX TO VOLUME XXXVII

All new names are printed in *italics*.

Abitagus, 315.
Acridinae, 54.
Acropyga roger, the neotropical coccid-tending ants of the genus, 89.
Acropyga (Rhizomyrma), 92.
  berwicki, 107.
  borgmeiri, 111.
  bruchi, 103.
  columbica, 94.
  decedens, 92.
  donisthorpei, 118.
  dubitata, 98.
  exsanguis, 96.
  fuhrmanni, 96.
  göldii, 93.
  guianensis, 120.
  kathrynae, 114.
  marshalli, 101.
  mesonotalis, 111.
  oko, 119.
  pachycera, 95.
  paludis, 121.
  panamensis, 113.
  paramaribensis, 103.
  parvidens, 100.
  pickeli, 102.
  quadriceps, 113.
  robae, 110.
  rutgersi, 104.
  smithi, 95.
  tridentata, 94.
  trinitatis, 117.
  urichi, 115.
  wheeleri, 101.
Aedes, 379.
  atlanticus, 379.
  canadensis, 379.
  cantator, 379.
  dupreei, 379.
  sollicitans, 379.
  taeniorhynchus, 379.
  triseriatus, 379.
  vexans, 379.
Aeshna rufipennis, The female of, 372.
Agrilus with descriptions of two new species, Notes on, 75.
Agrilus *amelanchieri*, 80.
  baboquivari, 78.
  barberi, 83.
  cavifrons, 75.
  cliftoni, 78.
  coeruleus, 80.
  costipennis, 78.
  fuscipennis, 78.
  lautuellus, 80.
  mimosae, 82.
  neoprosopidus, 83.
  obolinus, 80.
  obsoletoguttatus, 80.
  palmerleei, 76.
  pseudofallax, 83.
  snowi, 78.
  ventralis, 80.
  ornatulus, 80.
Alexander, Charles P. Article by, 298.
Amapsocus amabilis (Walsh), Bionomics of, 359.
Amphalius necopinus, 207.
Amphipsylla sibirica pollionis, 207.
Anopheles quadrimaculatus Say, with a comparison of the developmental power of constant and variable temperatures in insect metabolism, The temperature relations of the immature stages of the malarial mosquito, 1.
Anopheles, 379.
  barberi, 379.
  bradleyi, 379.
  crucians, 379.
  punctipennis, 379.
  quadrimaculatus, 379.
Anthropomorphism in insect psychology, 201.
Ants of the Chicago Region, The, 447.
Ants of the genus Acropyga roger, the neotropical coccid-tending, 89.
Aphaenogaster, 465.
Aphonus *brevicruris*, 36.
Arctopsylla ursi, 207.
Ataenius *linelli*, 28.
  saxatilis, 29.
Atarba, 316.
Atarba (Atarba), 316.
  procericornis, 316.
Atrichopogon levis (Coquillett), Observations on the early stages and life history of the grass punky, 37.
Aureata group, 434.

Babers, Frank H. (with Mayer). Article by, 214.
Boesel, M. W. (with Snyder). Article by, 37.

Book Notices, Authors:
  Antunes, Waldemar Sa, 200.
  Blackwelder, Richard E., 220, 419.
  Carpenter, F. M., 364.
  Carriker, M. A., Jr., 413.
  Coggesshall, Lowell T., 358.

BOOK NOTICES, AUTHORS—(*Continued*)
Comstock, William P., 192.
Costa-Lima, A. da, 388.
Danielli, James Frederic, 83.
Davson, Hugh, 83.
DeLong, Dwight M., 322.
Deming, W. Edwards, 160.
Dice, Lee R., 440.
Essig, E. O., 324.
Fattig, P. W., 323.
Good, Newell E., 375.
Gray, H. F., 351.
Griswold, Grace H., 413.
Heilbrunn, L. V., 88.
Hermes, William B., 351.
Hoffman, William E., 324.
Hoskins, W. M., 324.
Huntington, E. Irving, 192, 408.
Jellison, William, 375.
Komp, W. H. W., 387.
Lima, Servulo, 200.
Lumley, George F., 123.
Mackie, Thomas T., 358.
Matheson, Robert, 358.
McDunnough, J., 324.
Ross, Edward S., 371.
Ross, H. H., 371, 392.
Roth, Louis M., 388.
Seevers, Charles H., 297.
Solomon, M. E., 69.
Soper, Fred L., 200, 206.
Stoll, Norman R., 358.
Stunkard, Horace W., 358.
Taylor, Frank H., 123.
Wenzel, Rupert L., 375.
Wilson, D. Bruce, 200, 206.

BOOK NOTICES, BOOKS:
Anopheles Gambiae in Brazil 1930-1940, by Fred L. Soper and D. Bruce Wilson, 206.
Anopheles of the Southeastern United States, by Male Genitalia, A Key to the, by Louis M. Roth, 388.
Anopheline Mosquitoes of the Caribbean Region, The, by W. H. W. Komp, 387.
Anti-aedes Aegypti Measures in Brazil, The Organization of Permanent Nation-Wide, by Fred L. Soper, D. Bruce Wilson, Servulo Lima, and Waldemar Sa Antunes, 200.
Biotic Provinces of North America, The, by Lee R. Dice, 440.
Caddis Flies, or Trichoptera, of Illinois, The, by Herbert H. Ross, 392.
Carboniferous Insects from the Vicinity of Mazon Creek, Illinois, by F. M. Carpenter, 364.
Coleopterous Insects of Mexico, Central America, the West Indies and South America, Checklist of the, by Richard E. Blackwelder. Part I, 220, Part II, 419.
Culicidae of the Australian Region, A Checklist of the, by Frank H. Taylor, 123.
Dengue, Part I. Medical, by George F. Lumley, 123. Part II, Entomological, by Frank H. Taylor, 123.
Embioptera, or Web-Spinners, of the New World, A Revision of the, by Edward S. Ross, 371.
Gyponinae (Homoptera–Cicadellidae) Exclusive of Xerophloea, A Monographic Study of the North American Species of the Subfamily, by Dwight M. DeLong, 322.
Histerid Beetles, On the Classification of the, by Rupert L. Wenzel, 375.
Insectos Do Brasil, by A. da Costa-Lima, 388.
Insects, How to Collect and Preserve, by H. H. Ross, 371.
Insects and Other Pests Attacking Agricultural Crops, by E. O. Essig and W. M. Hoskins, 324.
Insects of Porto Rico and the Virgin Islands, Rhopalocera or Butterflies, by William Phillips Comstock, 408.
Lycaenidae of the Antilles (Lepidoptera, Rhopalocera), by William P. Comstock and E. Irving Huntington, 192.
Mosquito Control, by William B. Hermes and H. F. Gray, 351.
Mosquito Intermediary Hosts of Diseases in Australia and New Guinea, by Frank H. Taylor, 123.
Neotropical Mallophaga (III). Tinamidae No. 2, Studies in, by M. A. Carriker, Jr., 413.
Parasitic Diseases and American Participation in the War, by Horace W. Stunkard, Lowell T. Coggesshall, Thomas T. Mackie, Robert Matheson, and Norman R. Stoll, 358.
Permeability of Natural Membranes, The, by Hugh Davson and James Frederic Danielli, with a foreword by E. Newton Harvey, 83.
Phalaenid Subfamily Plusiinae (Lepidoptera), Revision of the North American Genera of the, by J. McDunnough, 324.
Phyllophaga or May Beetles of Georgia, The, by P. W. Fattig, 323.
Physiology, An Outline of General, by L. V. Heilbrunn, 88.
Reduviidae of China, Catalogue of the, by William E. Hoffman, 324.

Book Notices, Books—(*Continued*)
Siphonaptera of North America, Index to the Literature of, by William Jellison and Newell E. Good, 375.
Staphylinidae, Amblyopininae, A New Subfamily of Beetles Parasitic on Mammals, by Charles H. Seevers, 297.
Statistical Adjustment of Data, by W. Edwards Deming, 160.
Tyroglyphid Mites in Stored Products. I. A Survey of Published Information, by M. E. Solomon, 69.
Webbing Clothes Moth (Tineola Bisselliella Hum.), Studies on the Biology of the, by Grace H. Griswold, 413.

Borror, Donald J. Article by, 393.
Brachymyrmes, 469.
Breviura group, 423.
Brown, John H. Article by, 207.
Brown, F. Martin. Article by, 255.
Bugbee, Robert E. Article by, 420.

Camponotus, 477.
Camponotus ants, nutritional requirements of, 401.
Cartwright, O. L. Article by, 28.
Catallagia borealis, 207.
charlottensis, 208.
decipiens, 208.
Cediopsylla inaequalis inaequalis, 208.
Ceratophyllus garei, 208.
niger, 208.
Chlorion (amobia) pennsylvanicum L., The nesting habits of the wasp, 439.
Cicadellidae, Nomenclatorial notes on, 123.
Comparative study of the appendages of the eighth and ninth abdominal segments of insects, A, 336.
Comperiella bifasciata, an endoparasite of Diaspine coccids, Observations on, 365.
Conocephalinae, 60.
Coriphorinae, 60.
Corrections (omissions and errors), 481.
Corrodopsylla curvata curvata, 208.
Crane-flies from South America, part XI, New species of, 298.
Crematogaster, 461.
Ctenolimnophila (Abitagua), 315.
longifusa, 315.
Ctenocephalides canis, 208.
felis felis, 208.
pseudagyrtes, 208.
terribilis, 208.
Culex apicalis, 379.
erraticus, 379.
peccator, 379.
quinquefasciatus, 379.
restuans, 379.
salinarius, 379.
Culex (Melanoconium) atratus theobald in Florida; a new continental North American record, with notes on the other Melanoconions of the Southeastern United States, 84.
Curculionidae, Douttia, a new genus of New Hebridean, 193.
Cyrtacanthacrinae, 56.

Dactylopsylla ignota albertensis, 208.
Dasymutilla permista Mickel to Dasymutilla quadriguttata (Say) and behavior notes on the species, The relationship of, 198.
Decticinae, 60.
DeBach, Paul. Article by, 70.
DeLong, Dwight M. Article by, 68.
Delotelis telegoni, 208.
Dolichoderinae, 467.
Dolichoderus, 467.
Dorsey, C. K. Article by, 376.
Dorymyrmex, 468.
Douttia, a new genus of New Hebridean Curculionidae, 193.
Douttia bicolor, 194.

Ecuadorian butterflies. IV. The genus penrosada, New, Notes on, 255.
Environmental contamination by an insect parasite and the effect on host selection, 70.
Epiphragma, 313.
Epiphragma (Epiphragma), 313.
phaeoxantha, 313.
Epitedia inopina, 208.
wenmanni, 209.
Erythrodiplax maculosa, 389.
Erythrodiplax maculosa (Hagen), Additional notes on, 393.
Erythrodiplax maculosa (Hagen), Description of the male of, 389.
Eucanthus *alutaceus*, 30.
lazarus, 30.
Eumasticidae (Orthoptera), Ileal caeca in the, 441.
Eurytoma from Mexico, Eleven new species of, 420.
Eurytoma *aureata*, 434.
breviura, 423.
excellens, 433.
imago, 426.
lata, 425.
levidensis, 428.
linearis, 424.
numerosa, 436.
spadix, 429.
subfusca, 432.
tepicensis, 437.
venula, 431.

Flanders, Stanley E. Article by, 365.
Fleas (Siphonaptera) of Alberta, with a list of the known vectors of Sylvatic plague, The, 207.
Formica, 472.
Formicidae, 459.
Formicinae, 469.
Frost, S. W. (with Haber). Article by, 161.

Gnophomyia, 317.
Gnophomyia (Gnophomyia), 317.
coxitalis, 317.
flebilis, 320.
perlata, 320.
teleneura, 318.
Grass Punky, Atrichopogon levis (Coquillett), Observations on the early stages and life history of the, 37.
Gregg, Robert E. Article by, 447.

Haber, V. R. (with Frost). Article by, 161.
Hemocytes are blocked with Chinese ink or nephrocytes are stained with trypan blue, Effect of potassium fluoride and pyrethrum on, Periplaneta americana (L.) after, 414.
Heteroptera, A case of prenatal care in the, 161.
Hoplopsyllus, 209.
Huckett, H. C. Article by, 261.
Huffaker, Carl B. Article by, 1.
Hydrophoria robineau-desvoidy, A revision of the North American species belonging to the genus, 261.
Hydrophoria, 264, 271.
alaskensis, 286.
altilega, 275.
alpina, 272.
ambigua, 296.
borealis, 284.
brunneifrons, 282.
conica, 288.
divisa, 278.
fasciculata, 288.
flavohalterata, 297.
frontata, 274.
galeata, 290.
ignobilis, 295.
implicata, 287.
katmaiensis, 280.
laticornis, 276.
lucidiventris, 286.
nigerrima, 276.
packardi, 297.
polita, 272.
proxima, 279.
ruralis, 291.
seticauda, 292.
uniformis, 294.
verticina, 271.
wierzejskii, 283.
zetterstedti, 292.
Hystrichopsylla gigas dippiei, 209.

Ileal caeca in the Eumastacidae (Orthoptera), 441.
Index to Volume XXXVII, 481.
Iridomyrmes, 468.
Isely, F. B. Article by, 47.
(Ixodidae), biology of Ixodes murus Bishopp and Smith, 221.
Ixodes muris Bishopp and Smith (Ixodidae), Biology of, 221.

Kennedy, Clarence Hamilton. Article by, 372.
Knull, Dorothy J. Article by, 123.
Knull, J. N. Article by, 75.
Kramer, Sol. Article by, 167.

Lasius, 470.
Lawson, Chester A. Article by, 409.
Leptothorax, 466.
Ligyrus *blatchleyi*, 34.
Limonia, 309.
Limonia (Geranomyia), 310.
pastazina, 312.
refuga, 311.
stenophallus, 310.
Limonia (Limonia) *aurigens*, 309.

Madden, A. H. Article by, 145.
Mansonia, 379.
perturbans, 379.
Mayer, Elmer L. (with Babers). Article by, 214.
McGovran, E. R. (with Yeager, Mayer and Munson). Article by, 414.
Megarhinus, 379.
septentrionalis, 379.
Megarthroglossus divisus divisus, 209.
Melanoconions of the Southeastern United States, Culex (Melanoconion) atratus theobald in Florida; a new continental North American record, with notes on the other, 84.
Membership List, v.
Michener, Charles D. Article by, 336.
Monomorium, 466.
Morphology and food specificity in grasshoppers, Correlation between mandibular, 47.
Mosquito survey activities at Camp Peary, Virginia, 376.
Munson, Sam C. (with Yeager). Article by, 396.
Munson, Sam C. (with McGovran, Yeager and Mayer). Article by, 414.

Muscopteryx, 352.
chaetosula, 353.
hiemalis, 355.
hilaris, 355.
hinei, 354.
longiseta, 355.
nitida, 357.
parilis, 356.
Muscopteryx, New North American Tachinidae belonging to the genus, 352.
Myrmecina, 462.
Myrmica, 463.
Myrmicinae, 460.

Nearctopsylla brooksi, 209.
genalis genalis, 209.
Neopsylla inopina, 209.
Nomenclatorial notes on Cicadellidae, 123.

Oblong-winged katydid, Amblycorypha oblongifolia (De Geer), The external morphology of the, 167.
Odontopsyllus multispinosus, 209.
Oedipodinae, 54.
Orchopeas agilis, 212.
caedens, 209.
leucopus, 209.
sexdentatus, 209, 212.
Ornithodoros coriaceus Koch (Argasidae), The life history of the tick, 325.
Oropsylla (Opisocrostis) bruneri, 209.
labis, 210, 212.
tuberculata tuberculata, 210, 212.
Oropsylla (Oropsylla) arctomys, 210.
idahoensis, 210, 212.
rupestris, 210, 212.
Orthopodomyia, 379.
alba, 379.
signifera, 379.
Ozodicera, 299.
piatrix, 299.

Paratrechina, 469.
Parthenogenetic apids, The relation of hind tibiae and sensoria to intermediacy in, 409.
Penrosada, New, Notes on Ecuadorian butterflies. IV. The genus, 255.
Penrosada, 255.
apiculata, 257.
curvilinea, 258.
discontinua, 260.
interrupta, 257.
lanassa, 258.
leaena, 256.
neglecta, 260.
reducta, 260.
Periplaneta americana (L.) after hemocytes are blocked with chinese ink or nephrocytes are stained with trypan blue, Effect of potassium fluoride and pyrethrum on, 414.
Peromyscopsylla hamifer hamifer, 210.
selenis, 210.
Phaneropterinae, 58.
Pheidole, 462.
Phyllophaga *isolita*, 33.
marginalis, 33.
tecta, 32.
yemasseei, 30.
Plummerella (Homoptera, Cicadellidae) from Mexico, A new species of, 68.
Plummerella *lineata*, 68.
Polyergus, 476.
Ponera, 460.
Ponerinae, 459.
Prenatal care in the Heteroptera, A case of, 161.
Prenolepis, 469.
Proceratium, 460.
Prodenia eridania (Cramer), Head-capsule measurements of southern armyworm larvae, 214.
Prodenia eridania (Cram.), Fat inclusions in blood cells of the southern armyworm, 396.
Proceedings of the thirty-eighth annual meeting of the Entomological Society of America, 124.
Pseudophyllinae, 58.
Psorophora, 379.
ciliata, 379.
columbiae, 379.
ferox, 379.
howardii, 379.
Pulex irritans, 210, 212.

Rau, Phil. Articles by, 201, 439.
Rectofrontia fraterna, 210.
Reinhard, H. J. Article by, 352.
Remington, Charles L. Article by, 198.
Romaleinae, 55.
Roth, Louis M. Article by, 235.
Roth, Louis M. (with Young). Article by, 84.

Santos, N. Dias dos. Article by, 389.
Scarabaeidae from United States, New, 28.
Sylvatic plague, The fleas (Siphonapters) of Alberta, with a list of the known vectors, 207.
Siphonaptera, 207.
Slifer, Eleanor H. Article by, 441.
Smith, Carroll N. Articles by, 221, 325.
Smith, Falconer. Article by, 401.
Snyder, E. G. (with Boesel). Article by, 37.
Solenopsis, 461.

Sommerman, Kathryn M. Article by, 359.
Southern armyworm larvae (Prodenia eridania (Cramer), Head-capsule measurements of, 214.
Stenamma, 464.
Stigmatomma, 460.
Strumigenys, 461.
Sylvatic plague, The fleas (Siphonaptera) of Alberta, with a list of the known vectors of, 207.

Tachinidae belonging to the genus Muscopteryx, New North American, 352.
Tamiophilia grandis, 210.
Tanypremna (Tanypremnella), 300.
mediocornis, 300.
Tapinoma, 468.
Tetramorium, 462.
Temperature relations of the immature stages of the malarial mosquito, Anopheles quadrimaculatus Say, with a comparison of the developmental power of constant and variable temperatures in insect metabolism, The, 1.
Theobaldia, 379.
inornata, 379.
melanura, 379.
Thrassis acamantis, 210, 212.
bacchi, 210.
gladiolis gladiolis, 211, 212.
petiolatus, 211, 212.
Tipula, 301.
emerita, 304.
hedymopa, 303.
luterlimbata, 305.
osculata, 301.
Tipula (Nephrotomodes), 306.
cerogama, 306.
palaeogama, 307.
Tobacco hornworm, The external morphology of the adult, 145.
Trentepohlia, 321.
Trentepohlia (Mongoma) *errans*, 321.
Tribolium confusum Duval, Studies on, 235.
Trichopsylla (Trichopsylla) abantis, 211.
asio asio, 211.
atrox, 211.
bitterrootensis, 211.
eumolpi eumolpi, 211, 212.
lucifer, 211.
quirini, 211.
thamba, 211, 212.
vison, 211.
wagneri systalta, 211.

Uranotaenia, 379.
sapphirina, 379.

Weber, Neal A. Article by, 89.

Yeager, J. Franklin (with Munson). Article by, 396.
Yeager, J. Franklin (with McGovran, Mayer and Munson). Article by, 414.
Young, Frank N. (with Roth). Article by, 84.

Zimmerman, Elwood C. Article by, 193.